

APPENDIX B
VERSION WITH MARKINGS TO SHOW CHANGES MADE
37 C.F.R. § 1.121(b)(iii) AND (c)(ii)

CLAIMS:

1. (Twice Amended) A MOS gated device which is resistant to single event radiation failure and having improved total dose radiation resistance; said device comprising:
 - a P-type substrate having substantially flat, parallel upper and lower surfaces;
 - a plurality of laterally spaced N-type body regions extending from said upper surface into said substrate;
 - at least one respective P-type source region formed in each of said body regions in said upper surface of said substrate and defining a respective channel region in said upper surface in said N-type body region;
 - a gate electrode comprised of p-type polysilicon [including boron dopants] disposed atop and insulated from said channel region and operable to invert said channel region in response to the application of a suitable gate voltage to said gate electrode said gate being insulated from said channel region by a gate oxide layer comprising silicon dioxide, said gate oxide layer being radiation hardened and less than 1000Å thick; [and]
 - a source electrode disposed atop said upper surface and connected to said at least one P-type source region; and
 - an interlayer dielectric layer formed atop said gate electrode and having openings therein in which said source electrode contacts said source regions, wherein said interlayer dielectric includes dopant ions.
9. (Amended) The MOS gated device of claim [8] 1 wherein said interlayer dielectric is low temperature oxide.